Project Name: CL
Project Code: CL **Site ID:** B563 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	**Locality:**	
Date Desc.:	13/10/66	**Elevation:**	6 metres
Map Ref.:	Sheet No. : 9544 1:100000	**Rainfall:**	1632
Northing/Long.:	153.016666666667	**Runoff:**	Very slow
Easting/Lat.:	-26.85	**Drainage:**	Very poorly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	Qa	**Substrate Material:**	Auger boring, 2 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Upper-slope	**Relief:**	9 metres
Elem. Type:	Drainage depression	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Melacic-Magnesic Kurosolic Redoxic Hydrosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy5.81
Great Soil Group: Humic gley

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - , , . *Species includes - Xanthorrhoea species
Mid Strata - Shrub, , Closed or dense. *Species includes - Banksia robur
Tall Strata - Tree, , Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Fine sandy loam; Moderate grade of structure, Granular; Wet; Field pH 5.3 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); ; Fine sandy loam; Weak grade of structure, Subangular blocky; Wet; Field pH 5.8 (pH meter); Common
A12	0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Fine sandy loam; Massive grade of structure; Wet; Field pH 5.2 (pH meter); Few
A12	0.3 - 0.4 m	Very dark grey (10YR3/1-Moist); ; Fine sandy loam; Massive grade of structure; Wet; Field pH 5 (pH meter); FewDiffuse change to -
A13	0.4 - 0.6 m	Grey (10YR5/1-Moist); ; Loamy sand; Massive grade of structure; Wet; Field pH 5 (pH meter); Few
A13	0.6 - 0.8 m	Grey (10YR5/1-Moist); ; Loamy sand; Massive grade of structure; Wet; Field pH 5 (pH meter); FewDiffuse change to -
A2	0.8 - 0.9 m	Light brownish grey (10YR6/2-Moist); , 7.5YR68, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Sand; Single grain grade of structure; Wet; Field pH 5.1 (pH meter);
A2	0.9 - 0.97 m	Light brownish grey (10YR6/2-Moist); , 7.5YR68, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Clayey sand; Single grain grade of structure; Wet; Field pH 5.1 (pH meter); Abrupt change to -
Bg	0.97 - 1.2 m	Grey (10YR6/1-Moist); , 7.5YR58, 0-2% , 5-15mm, Distinct; , 0-2% , 5-15mm, Distinct; Sandy medium clay; Weak grade of structure, 100-200 mm, Prismatic; 20-50 mm, Angular blocky; Wet; Weak consistence; Field pH 5.1 (pH meter); Diffuse change to -
Bg	1.2 - 1.42 m	Light greenish grey (5BG7/1-Moist); , 7.5YR58, 10-20% , 5-15mm, Prominent; , 5YR58, 10-20% , 5-15mm, Prominent; Sandy medium clay; Weak grade of structure, Prismatic; Moist; Firm consistence; Field pH 5.2 (pH meter); Clear change to -

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B2g	1.42 - 1.5 m	(N7/0-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Sandy medium clay; Weak grade of structure, Prismatic; Moist; Very firm consistence; Field pH 5.3 (pH meter);
B2g	1.5 - 1.72 m	(N7/0-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Sandy medium clay; Weak grade of structure, Prismatic; Moist; Very firm consistence; Field pH 5.2 (pH meter);

Morphological Notes

Observation Notes

0-10CM POROUS GRANULAR STRUCTURE:STONELINE AT 142CM:PARENT MATERIAL IS COLLUVIAL-SAND GRADING INTO WEATHERED MESOZOIC SANDSTONE BELOW:

Site Notes

BEERWAH

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.3A	0.062A	0.18B	0.83	0.13	0.26	3.7D			
0.1 - 0.2	5.8A	0.027A								
0.2 - 0.3	5.2A	0.041A	0.11B	0.15	0.04	0.11	1.8D			
0.3 - 0.4	5A	0.024A								
0.4 - 0.6	5A	0.019A	0.05B	0.08	0.02	0.1	1D			
0.6 - 0.8	5A	0.022A								
0.8 - 0.9	5.1A	0.022A	0.05B	0.34	0.02	0.1	1D			
0.9 - 0.97	5.1A	0.022A	0.05B	0.5	0.02	0.16	1.6D			
0.97 - 1.2	5.1A	0.022A	0.05B	1.1	0.02	0.18	2.8D			
1.2 - 1.42	5.2A	0.024A								
1.42 - 1.5	5.3A	0.024A	0.05B	2.3	0.02	0.48	4.6D			
1.5 - 1.72	5.2A	0.027A	0.05B	2.3	0.02	0.33	4.7D			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.62A	7.7A	0.007A	0.12B	0.04A	1.08	1	31C	43	12	8
			8.1B									
0.1 - 0.2							1.45					
0.2 - 0.3		0.93A		0.002A	0.046B	0.02A		1	44C	39	6	9
0.3 - 0.4												
0.4 - 0.6				0.001A	0.023B	0.02A		1	53C	30	8	7
0.6 - 0.8				0.001A	0.015B	0.02A		1	54C	29	8	8
0.8 - 0.9				0.001A	0.013B	0.04A		1	60C	22	4	10
0.9 - 0.97				0.001A	0.014B	0.03A		1	58C	20	5	16
0.97 - 1.2				0.003A	0.018B	0.05A		1	45C	21	6	26
1.2 - 1.42												
1.42 - 1.5				0.002A	0.012B	0.11A		1	42C	19	6	34
1.5 - 1.72				0.002A	0.01B	0.14A		1	41C	19	7	31

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m				g/g - m3/m3					mm/h	mm/h
0 - 0.1				0.4F				0.11H		
0.1 - 0.2				0.29F				0.08H		
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.6										
0.6 - 0.8										
0.8 - 0.9										
0.9 - 0.97										
0.97 - 1.2										
1.2 - 1.42										
1.42 - 1.5										
1.5 - 1.72										

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
17A1	Total potassium - X-ray fluorescence
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
P3A1	Bulk density - g/cm3
P3B3VLe004	0.04 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on suction plate
P3B3VLe01	0.1 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on suction plate
P3B3VLe03	0.3 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on suction plate
P3B3VLe06	0.6 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
P3B3VLe15	15 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
P3B3VLe2	2 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
P3B3VLe7	7 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_Vm	Vermiculte - X-Ray Diffraction